

A LIST OF THE THYSANOPTERA OF CALIFORNIA

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The members of the order Thysanoptera of economic importance have received in recent years an increasing amount of attention, and deservedly so. Hinds, Hood, Moulton, Steinweden, Watson, and others have made many and valuable contributions to the taxonomy of the thrips of North America. But, as a group, the thrips of California have received little notice.

In 1902, Hinds listed four species of Thysanoptera from California. Miss Daniel in 1904 added four more, Moulton recorded a total number of 25 species in 1907 and 45 in 1911. Watson, as late as 1923, cataloged only 54 species from this state. We are now able to total 107 species as having been taken in this important agricultural area.

This list has been compiled from published records, the files of the State Department of Agriculture, from suggestions by Mr. Dudley Moulton and Mr. J. B. Steinweden, and collections made by the author. Doubtless further collecting and study of the thrips in California will add materially to this record which it is hoped will establish a basis for later work.

The taxonomic validity of *Aeolothrips longiceps* Crawford may be questioned and a thorough study of the systematics of this group may place more accurately such species as *Dactuliothrips spinosus* Moulton and *Mycterothrips longirostrum* (Jones). The species of economic importance are starred.

Sub-Order TEREBRANTIA Haliday, 1836

Super-Family AEOLOTHRIPOIDEA Hood, 1915

Family AEOLOTHRIPIDÆ Uzel, 1895

Sub-Family OROTHRIPINÆ Bagnall, 1913

Genus *Erythrothrips* Moulton, 1911

1. *E. arizonæ* Moulton, 1911. 1929.
2. *E. fasciculatus* Moulton, 3. *E. keeni* Moulton, 1929.

Genus *Orothrips* Moulton, 1907

4. *O. Kelloggi* Moulton, 1907. 6. *O. variabilis* Moulton,
5. *O. yosemitei* Moulton, 1911. 1927.

Sub-Family MELANTHRIPINÆ Bagnall, 1913

Genus *Ankothrips* Crawford, 1909

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| 7. <i>A. robustus</i> Crawford,
1909. | 9. <i>A. æqualis</i> Moulton, 1926. |
| 8. <i>A. gracilis</i> Moulton, 1926. | 10. <i>A. yuccæ</i> Moulton, 1926. |

Sub-Family AEOLOTHRIPINÆ Bagnall, 1913

Genus *Aeolothrips* Haliday, 1836

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| 11. <i>Ae. fasciatus</i> (Linn.),
1758. | 14. <i>Ae. nasturtii</i> Jones, 1912 ¹ |
| 12. <i>Ae. kuwanai</i> Moulton,
1907. | 15. <i>Ae. tuolumnei</i> , Moulton,
1927. |
| 13. <i>Ae. longiceps</i> Crawford,
1909. | 16. <i>Ae. yosemitæ</i> Moulton,
1929. |

Genus *Franklinothrips* Back, 1912

17. *F. vespiiformis* (Crawford), 1909.

Family DACTULIOTHRIPIDÆ Moulton, 1931

Genus *Dactuliothrips* Moulton, 1931

18. *D. spinosus* Moulton, 1931

Super-Family THRIPOIDEA Hood, 1915

Family THRIPIDÆ Uzel, 1895

Sub-Family HELIOTHRIPINÆ Karny, 1921

Genus *Heliothrips* Haliday, 1836

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| *19. <i>H. hæmorrhoidalis</i>
(Bouché), 1833. | 20. <i>H. fasciapennis</i> Hinds,
1902. |
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Genus *Hercothrips* Hood, 1927

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| *21. <i>H. femoralis</i> (Reuter),
1891. | 1895. |
| *22. <i>H. fasciatus</i> (Pergande), | 23. <i>H. bromi</i> Moulton, 1927. |
| 24. <i>H. gossypii</i> Moulton, 1927. | |

Genus *Parthenothrips* Uzel, 1895

- *25. *P. dracænæ* (Heeger), 1854.

Sub-Family CHIOTHRIPINÆ Karny, 1921

¹Mr. Moulton believes *tuolumnei* to be a synonym of *nasturtii*.

Genus *Chirothrips* Haliday, 1836

26. *C. similis* Bagnall, 1909. 1909.
 27. *C. mexicanus* Crawford,

Genus *Limothrips* Haliday, 1836

28. *L. angulicornis* Jablonowski, 1894

Genus *Aptinothrips* Haliday, 1836

29. *A. rufus* (Gmelin), 1788.

Sub-Family SERICOTHRIPINÆ Karny, 1921

Tribe SERICOTHRIPINI Priesner, 1926

Genus *Sericothrips* Haliday, 1836

30. *S. variabilis* (Beach), 1896. 32. *S. moultoni* Jones, 1912.
 31. *S. albus* Jones, 1912.

Genus *Scirtothrips* Shull, 1909

- *33. *S. citri* (Moulton), 1909. 35. *S. albus* (Jones), 1912.
 34. *S. longipennis* (Bagnall), 1909. 36. *S. aceri* Moulton, 1926.

Genus *Drepanothrips* Uzel, 1895

- *37. *D. reuteri* Uzel, 1895.

Tribe ANAPHOTHRIPINI Priesner, 1926

Genus *Anaphothrips* Uzel, 1895

38. *A. obscurus* (Müller), 1896.
 1776. 40. *A. zeæ* Moulton, 1911.
 39. *A. secticornis* (Trybom),

Sub-Genus *Odontanaphothrips* Moulton, 1926

41. *O. tricolor* Moulton, 1911. 42. *O. enceliæ* Moulton, 1926.

Sub-Genus *Neophysopus* Schmutz, 1913

43. *N. minutus* Moulton, 1929.

Sub-Genus *Prosopoanaphothrips* Moulton, 1926

44. *P. reticulatus* (Moulton), 1907.

Sub-Genus *Chætanaphothrips* Priesner, 1925

- 45.
- C. orchidii*
- (Moulton), 1907.

Tribe DENDROTHRIPINI Priesner, 1926

Genus *Psilothrips* Hood, 1927

- 46.
- P. priesneri*
- (Moulton), 1926. 47.
- P. pardalotus*
- Hood, 1927.

Sub-Family THIRIPINÆ Karny, 1921

Genus *Odontothrips* Amyot and Serville, 1843

- 48.
- O. loti*
- (Haliday), 1852.

Genus *Scolothrips* Hinds, 1902

- 49.
- S. sexmaculatus*
- (Pergande), 1894.

Genus *Frankliniella* Karny, 1910

- *50. *F. occidentalis* (Pergande), 1895. *53. *F. gossypii* (Morgan), 1913.
- *51. *F. minuta* (Moulton), 1907. *54. *F. moultoni* Hood, 1914
 (= *californicus* Moulton, 1911).
52. *F. helianthi* (Moulton), 1911.

Genus *Tæniothrips* Amyot and Serville, 1843

- *55. *T. inconsequens* (Uzel), 1895. 61. *T. albipennis* Moulton, 1929.
56. *T. ehrhorni* (Moulton), 1907. 62. *T. vulgatissimus americanus* Moulton, 1929.
57. *T. albus* (Moulton), 1911². *63. *T. simplex* Morison, 1930
58. *T. costalis* (Jones), 1912. (= *gladioli* M. and S., 1931).
59. *T. blacki* (Watson), 1919³.
60. *T. tahoei* Moulton, 1927.

Genus *Arpediothrips* Hood, 1927

- 64.
- A. mojave*
- Hood, 1927.

Genus *Rhopalandrothrips* Priesner, 1922

- 65.
- R. corni*
- Moulton, 1927.

²Mr. Moulton believes *costalis* to be synonymous with *albus*.³Mr. Moulton believes this species to be a synonym of *frici* (Uzel), 1895.

Genus *Thrips* Linnæus, 1746

- *66. *T. tabaci* Lindeman, 1888. 70. *T. magnus* Moulton, 1911.
 *67. *T. nigropilosus* Uzel, 1895. 71. *T. helianthi* Morgan, 1913.
 68. *T. madroni* Moulton, 1907. 72. *T. heraclei* Moulton, 1926.
 69. *T. bremneri* Moulton, 1907.

Sub-Genus *Microcephalothrips* Bagnall, 1926

73. *M. abdominalis* Crawford, 1910.

Genus *Toxonothis* Moulton, 1927

74. *gramineæ* Moulton, 1927.

Sub-Family MYCTEROTHRIPINÆ Karny, 1921

Genus *Mycterothis* Trybom, 1912

75. *M. longirostrum* (Jones), 1912.

Sub-Order TUBULIFERA Haliday, 1836

Super-Family PHLOETHRIPIDEA Hood, 1915

Family PHLOETHRIPIDÆ Uzel, 1895

Sub-Family PHLOETHRIPINÆ Karny, 1921

Tribe HOPLOTHRIPINI Priesner, 1927

Genus *Cryptothrips* Uzel, 1895

76. *C. rectangularis* Hood, 1908. 77. *C. sordidatus* Hood, 1927.

Genus *Cephalothrips* Uzel, 1895

78. *C. errans* Moulton, 1911.

Genus *Poecilothrips* Uzel, 1895

79. *P. ornatus* (Hood), 1913. 81. *P. dens* (Moulton), 1907.
 80. *P. lupini* Moulton, 1929⁴.

Genus *Liothrips* Uzel, 1895

82. *L. ilex dumosa* (Moulton), 1907. 1920.
 85. *L. corni* Moulton, 1926.
 83. *L. varicornis* Hood, 1912. 86. *L. xanthocerus* Hood, 1927.
 *84. *L. vaneeckeii* Priesner,

⁴ The writer has not seen this species but believes it to be synonymous with *P. ornatus*.

Genus *Rhynchothrips* Hood, 1912

- *87.
- R. ilex*
- (Moulton), 1907.

Genus *Hoplothrips* Amyot and Serville, 1843

- 88.
- H. corticis*
- (DeGeer), 1773.

Genus *Priesneriella* Hood, 1927

- 89.
- P. citricauda*
- Hood, 1927.

Tribe HAPLOTHRIPINI, Priesner, 1925

Genus *Haplothrips* Amyot and Serville, 1843

- *90.
- H. leucanthemi*
- (Schrank), 1781. ford), 1909.
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- 92.
- H. ruber*
- (Moulton), 1911.
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- 91.
- H. fasciculatus*
- (Craw-

Sub-Genus *Chonothrips* John, 1924

- 93.
- C. gaviotæ*
- Moulton, 1929.

Sub-Genus *Zygothrips* (Uzel), 1895

- 94.
- Z. californicus*
- Mason, 1926.

Genus *Neoheegeria* Schmutz, 1909

- 95.
- N. verbasci*
- (Osborn), 1896.

Genus *Bagnalliella* Karny, 1920

- 96.
- B. yuccæ*
- (Hinds), 1902. 98.
- B. mojave*
- Hood, 1927.
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- 97.
- B. desertæ*
- Hood, 1927.

Genus *Karnyothrips* Watson, 1923

- 99.
- K. flavipes*
- (Jones), 1912.

Genus *Leptothrips* Hood, 1909

- 100.
- L. mali*
- (Fitch), 1856. 101.
- L. heliomanes*
- Hood, 1927.

Tribe PHLOEOTHRIPINI Priesner, 1925

Genus *Phloeothrips* Haliday, 1836Sub-Genus *Hoplandrothrips* (Hood), 1912

102. *H. armiger* (Jones), 1912. 103. *H. sycamorensis* Mason, 1926.

Sub-Family MEGATHRIPINÆ Priesner, 1927

Tribe MEGATHRIPINI Priesner, 1927

Genus *Megalothrips* Uzel, 1895

104. *M. hesperus* Moulton, 1907. 105. *M. picticornis* Hood, 1927.

Tribe COMPSOTHRIPINI Priesner, 1927

Genus *Formicothrips* Priesner, 1927

106. *F. yosemitæ* Moulton, 1929.

Super-Family UROTHRIPOIDEA Hood, 1915

Family UROTHRIPIDÆ Bagnall, 1909

Genus *Stephanothrips* Trybom, 1912

107. *S. bradleyi* Hood, 1927.

In addition to the above recorded species *Franklinella fusca* (Hinds), 1902, *Tæniothrips hawaiiensis* (Morgan), 1913, and *Haplothrips gowdeyi* (Franklin), 1908, have been intercepted at California plant quarantine inspection points.

Note: Since this manuscript was first submitted for publication (July 10, 1935), the author has been in correspondence with Professor J. D. Hood, Mr. Moulton, and Dr. H. Priesner and wishes to express his appreciation for their suggestions and corrections. Professor Hood believes that the genus *Psilothrips* should precede *Anaphothrips*, that *Pæcilothrips* should follow *Hoplandrothrips*, and has also generously offered other information from unpublished manuscripts and descriptions which it is to be regretted cannot be incorporated at this time.—S. F. B.

PHILEURUS ILLATUS LEC.

At Valley Wells, San Bernardino County, California, I took a specimen of *Phileurus illatus* Lec. at Light. Although Leng records this species as occurring in southern California it is exceedingly rare. In Arizona it is taken frequently—E. R. Leach.